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## WebSplitter: a unified XML framework for multi-device collaborative Web browsing

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### ↑ ABSTRACT

WebSplitter symbolizes the union of pervasive multi-device computing and collaborative multi-user computing. WebSplitter provides a unified XML framework that enables multi-device and multi-user Web browsing. WebSplitter splits a requested Web page and delivers the appropriate partial view of each page to each user, or more accurately to each user's set of devices. Multiple users can participate in the same browsing session, as in traditional conferencing groupware. Depending on the access privileges of the user to the different components of content on each page, WebSplitter generates a personalized partial view. WebSplitter further splits the partial view among the devices available to each user, e.g. laptop, wireless PDA, projection display, stereo speakers, orchestrating a composite presentation across the devices. A wireless PDA can browse while remotely controlling the multimedia capabilities of nearby devices. The architecture consists of an XML metadata policy file defining access privileges to XML tags on a Web page, a middleware proxy that splits XML Web content to create partial views, and a client-side component, e.g. applet, enabling user login and reception of pushed browsing data. Service discovery finds and registers proxies, browsing sessions, and device capabilities. We demonstrate the feasibility of splitting the different tags in an XML Web page to different end users browsers, and of pushing updates from the browsing session to heterogeneous devices, including a laptop and a PDA.

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**↑ INDEX TERMS****Primary Classification:****I.** Computing Methodologies    ↳ **I.7 DOCUMENT AND TEXT PROCESSING**        ↳ **I.7.2 Document Preparation**            ↳ **Nouns: XML****Additional Classification:****D.** Software    ↳ **D.3 PROGRAMMING LANGUAGES**        ↳ **D.3.3 Language Constructs and Features**            ↳ **Subjects: Frameworks****H.** Information Systems    ↳ **H.3 INFORMATION STORAGE AND RETRIEVAL**        ↳ **H.3.5 On-line Information Services**            ↳ **Subjects: Web-based services**    ↳ **H.5 INFORMATION INTERFACES AND PRESENTATION (I.7)**        ↳ **H.5.2 User Interfaces (D.2.2, H.1.2, I.3.6)**            ↳ **Subjects: Interaction styles (e.g., commands, menus, forms, direct manipulation)**        ↳ **H.5.3 Group and Organization Interfaces**            ↳ **Subjects: Collaborative computing; Web-based interaction****General Terms:**Design, Human Factors, Languages, Management, Performance, Theory**Keywords:**PDA, XML, co-browsing, collaboration, groupware, middleware, multi-device, partial view, pervasive, proxy, remote control, service discovery, wireless**↑ Collaborative Colleagues:**Richard Han:Hector AbrachKen LutzAnmol ShethShah BhattiDavid MesserschmittBrian ShuckerRobert W.Shivakant MishraJohn R. SmithBrodersenMahmoud NaghshinehBelle TsengAndrew BursteinShankarJim CarlsonNarayanaswamyHui DaiVeronique PerretJing DengJan RabaeyVida HaBrian RichardsChing-Yung LinJeff RoseAllan ChristianSamuel ShengLongMahmoudAnthony S.Javier GomezFriedemann Mattern Michele

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Relevance scale **1 Tokenless static data flow using associative templates**

T. L. Sterling, D. S. Wills, E. Y. Chan

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing**Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The static data flow model of computation promises high performance from fine grained parallelism, but conventional token-driven static data flow architectures are inefficient in terms of memory bandwidth and microcycles required per operation. The associative template mechanism, a new application of associative techniques, employs specially configured content-addressable memories to provide efficient flow control for static data flow program execution. It supports static data flow ...

**2 A software engineering experience in the management, design and implementation of a data secure system**

David K. Hsiao

October 1976 **Proceedings of the 2nd international conference on Software engineering**Full text available:  [pdf\(739.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

HSDMS (Highly Secure Data Management System) is a secure, on-line and multi-user experimental database management system developed on the Digital Equipment Corporation's PDP-10 computer system. It is a vehicle for testing new facilities and applications of data management and access control. Furthermore the development of HSDMS itself has been aimed at the outset as an exercise in software engineering management and control. In the first part of the paper, the software engineerin ...

**Keywords:** Access control, Authority item, Data independence, Data secure system, Data security, Parallel access, Prompting, Security atom, User interface

**3 Facilitating the development of representations in hypertext with IDE**

D. S. Jordan, D. M. Russell, A.-M. S. Jensen, R. A. Rogers

November 1989 **Proceedings of the second annual ACM conference on Hypertext**Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hypertext systems are used for a variety of representational tasks, many that involve fairly formalized structures. Because hypertext systems are generally intended for developing informal (unstructured data) and semi-formal (semantic networks) structures, developing

more formal structures can be difficult. Regular patterns in structures must often be recreated from primitive elements (individual nodes and links) resulting in a high overhead cost. In this paper we describe the Instructional ...

#### 4 Gate matrix layout synthesis with two-dimensional folding

I. Lin, D. H. C. Du, S. H. C. Yen

June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Full text available:  pdf(850.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We have developed a gate matrix layout synthesis tool which utilizes folding technique on both rows and columns. The conventional interval graph model and the recently proposed dynamic net-list representation can not fully depict circuit schematics such as inter-net connections. The incomplete representations may mislead the search process for an optimal solution during the layout partitioning and the gate ordering phases. We propose a new graph-based model called hierarchical dynamic net-l ...

#### 5 Computer-assisted template layout

Kenneth E. Smith

June 1970 **Proceedings of the 7th workshop on Design automation**

Full text available:  pdf(967.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses a mnemonic coding language and translation program used to produce master sheet metal templates on a computer-controlled flatbed plotter. The major advantage of computer-assisted template layout is the ability to reproduce identical templates for use at different locations or to replace mutilated templates by simply reprocessing the original input data cards through a computer-plotter combination. A typical template required about two hours for preparation of the input ...

#### 6 Flexibility and control for dynamic workflows in the WORLDS environment

Douglas P. Bogia, Simon M. Kaplan

August 1995 **Proceedings of conference on Organizational computing systems**

Full text available:  pdf(2.78 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a model and prototype implementation, called obligations, for handling flexible, dynamic changes to workflows. The model uses multiple inheritance and an overhead transparency metaphor to construct a network of activities. Each 'sheet' holds portions of the network to be constructed. Some of these sheets contain local modifications that are not shared among other similar activities and others hold general specifications that all instances should follow, ...

#### 7 Document creation II: Page composition using PPML as a link-editing script

Steven R. Bagley, David F. Brailsford

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Full text available:  pdf(197.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advantages of a COG (Component Object Graphic) approach to the composition of PDF pages have been set out in a previous paper [1]. However if pages are to be composed in this way then the individual graphic objects must have known bounding boxes and must be correctly placed on the page in a process that resembles the link editing of a multi-module computer program. Ideally the linker should be able to utilize all declared resource information attached to each COG.

We have investiga ...

**Keywords:** PDF, PPML, form Xobjects, graphic objects, link editing

**8 Design, implementation and testing of extended and mixed precision BLAS**

Xiaoye S. Li, James W. Demmel, David H. Bailey, Greg Henry, Yozo Hida, Jimmy Iskandar, William Kahan, Suh Y. Kang, Anil Kapur, Michael C. Martin, Brandon J. Thompson, Teresa Tung, Daniel J. Yoo

June 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 2

Full text available:  [pdf\(456.84 KB\)](#)

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This article describes the design rationale, a C implementation, and conformance testing of a subset of the new Standard for the BLAS (Basic Linear Algebra Subroutines): Extended and Mixed Precision BLAS. Permitting higher internal precision and mixed input/output types and precisions allows us to implement some algorithms that are simpler, more accurate, and sometimes faster than possible without these features. The new BLAS are challenging to implement and test because there are many more subr ...

**Keywords:** BLAS, double-double arithmetic, extended and mixed precision

**9 New life in dusty decks: results of porting a CM Fortran based aeroacoustic model to high performance Fortran**

Jeffrey J. Nucciarone, Yusuf Özyörük, Lyle N. Long

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(110.48 KB\)](#)

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The High Performance Fortran language is a 'standard by consensus', developed by individuals and vendors in the high performance computing industry, to provide a low barrier entry to parallel computing. It promises to be an easier to use development environment for distributed memory computing platforms compared to the programming complexity required by message passing libraries such as PVM and MPI. HPF promises much and is still in its infancy. Since HPF was developed in part based on experience ...

**Keywords:** Thinking Machines CM Fortran, aeroacoustics, dusty decks, high performance Fortran

**10 Simulation of memory chip line using an electronics manufacturing simulator**

Douglas N. Estremadoyro, Phillip A. Farrington, Bernard J. Schroer, James J. Swain December 1997 **Proceedings of the 29th conference on Winter simulation**

Full text available:  [pdf\(901.04 KB\)](#)

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**11 Simulation environment for electronics manufacturing**

Phillip A. Farrington, John S. Rogers, Bernard J. Schroer, James J. Swain, John L. Evans December 1995 **Proceedings of the 27th conference on Winter simulation**

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**12 Rapid previewing via volume-based solid modeling**

Naeem Shareef, Roni Yagel

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**

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### **1 Visualization of EDI messages: facing the problems in the use of XML**

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Multi-organizational EDI message networks are complicated communication environments with various standards and technologies. The role of third party message exchange hubs has become more important and their tasks more difficult. Current development activities for supporting the utilization of XML in electronic commerce focuses on message standardization and specification of common business architectures, processes, and web practices. A need to visualize EDI messages in different contexts to hum ...

**Keywords:** EDI, XML, XSL, business document, language, style sheets, visualization

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